



Recyclable Materials Materiales reciclables

Yes – Si
Items must be empty and clean (no food)
Los recipientes deben estar vacíos y limpios (sin alimentos)

Paper food boxes (without liners) Cajas de comida de papel (sin recubrimiento interior)	Paper Papel	Hard and paperback books, telephone books Libros de tapa blanda y dura, directorios telefónicos
Milk, juice, and broth cartons, paper cups Cajas de cartón de leche, jugo, y sopa, vasos de papel	Plastic bottles, cups, jugs, jugs, food containers, clamshells, trays, pill bottles (no prescription pills) Botellas de plástico, vasos, jarras, vasos, envases para comida, recipientes desechables de plástico para alimentos, clamshells / bandejas, frascos de píldoras (sin receta médica)	Shredded paper (security feed to clear plastic bags) Papel triturado (completamente envasado en bolsas de plástico transparente)
Tin and aluminum cans Latidos de acero y aluminio	Large lids – 3 inches or more Tapas grandes – de más de tres pulgadas	Glass bottles and jars Botellas y frascos de vidrio

NO

No cardboard (flaps or staples) containing ink No cartones (pliegues o grapas) que contengan tinta No food (expired, light bulbs, aerosols, aerosols) No comida (expirada, bombillas, aerosoles) No paint (open cans, paint) No pintura (latas abiertas, pintura) No grease / fluids No grasa / líquidos No household items (large appliances or product containers) No artículos domésticos (electrodomésticos o contenedores de productos) No auto parts (tires, paper, metal) No partes de autos (neumáticos, papel, metal) No auto tires and rims No llantas y tapas de ruedas No household appliances No electrodomésticos	No liquids (oil, antifreeze, coolant, brake fluid) No líquidos (aceite, anticongelante, líquido de frenos, líquido de frenos) No aerosols (spray cans, paint, etc.) No aerosoles (latas de spray, pintura, etc.) No tires (all sizes) No llantas de cualquier tamaño No tires (all sizes) No llantas de cualquier tamaño No tires (all sizes) No llantas de cualquier tamaño No tires (all sizes) No llantas de cualquier tamaño
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SORT IT OUT
SEPARAR SU RECICLAJE

Metal
Metal



Transfer Station Recycling & Resource Recovery Program Update SWAC February 19, 2016



King County

Department of
Natural Resources and Parks
Solid Waste Division

Waste
Prevention

Resource
Recovery

Waste
Disposal

Outline

- Improving external & internal communications & education
- Comingled recycling & new recycling compactors
- Vashon yard & food waste pilot
- Resource recovery
- Mercury lighting collection
- Styrofoam & plastic film update
- 2015 overall results
- Next steps
- Questions



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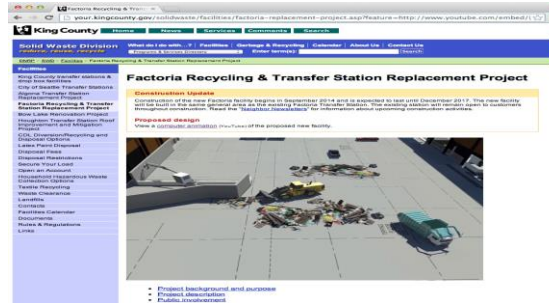
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Improving External Communication and Education

- Focus groups:
 - Nov. 2014
- Printed materials:
 - Inventory, assess, update



- Improved signage
 - Appliance recycling
 - Cardboard recycling
 - Comingled recycling
- Website (internet)
 - design



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Paper food boxes
(without liners)
Cajas de comida de papel
(sin recubrimiento interior)



Paper
Papel



Hard and paperback books,
telephone books
Libros de tapa blanda y dura,
directorios telefónicos



Milk, juice, and
broth cartons,
paper cups
Cajas de cartón
de leche, jugo, y
consomé, vasos
de papel



Plastic bottles, cups, jugs, pots,
food containers, clamshells, trays,
pill bottles (no prescription vials)
Botellas de plástico, vasos, jarras,
ollas, envases para comida, recipientes
desechable de plástico para alimentos,
charolas / bandejas, frascos de pastillas
(sin receta médica)



Shredded paper
(securely tied in clear
plastic bags)
Papel triturado
(propriadamente amarrado
en bolsas de plástico
transparente)



Tin and aluminum cans
Latas de estaño y
aluminio



Large lids – 3 inches or more
Tapas grandes – de más de tres
pulgadas



Glass bottles and jars
Botellas y frascos de
vidrio

NO

NO cardboard (Place in cardboard recycling bin)
NO ceramics, glassware, light bulbs, mirrors, windows
NO food / food contaminated paper
NO garbage / liquids
NO hazardous / toxic products or product containers
NO juice pouches (not lined)
NO paper towels / paper napkins
NO plastic bags / plastic utensils
NO small caps and lids
NO Styrofoam (polystyrene)

NO cartón (Pongan en el contenedor de reciclaje de cartón)
NO cerámica, cristalería, focos / bombillas, espejos y ventanas
NO comida / papel contaminado con comida
NO basura / líquidos
NO productos peligrosos / tóxicos o envases de productos
NO bolsas de jugo forradas con aluminio
NO toallas de papel / servilletas de papel
NO bolsas de plástico / cubiertos de plástico
NO tapas y tapones pequeños
NO poliestireno

Improving Internal Communication & Education

Customer Service & Recycling trainings

- Transfer station operators (TSOs)
- Scale operators (SOs)
- Jan. – April 2015
 - **Held 8 trainings**
- **129** SWD employees trained
- 2016 training sessions have begun



New recycling compactors net lower CO2 emissions and transportation costs while handling higher recycling tons.

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Paper
Papel

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Libros de tapa blanda y dura, directorios telefónicos

Milk, juice, and broth cartons, paper cups
Cajas de cartón de leche, jugo, y consomé, vasos de papel

Plastic bottles, cups, jugs, pots, food containers, clamshells, trays, pill bottles (no prescription vials)
Botellas de plástico, vasos, jarras, ollas, envases para comida, recipientes desechable de plástico para alimentos, charolas / bandejas, frascos de pastillas (sin receta médica)

Shredded paper (securely tied in clear plastic bags)
Papel triturado (propiamente amarrado en bolsas de plástico transparente)

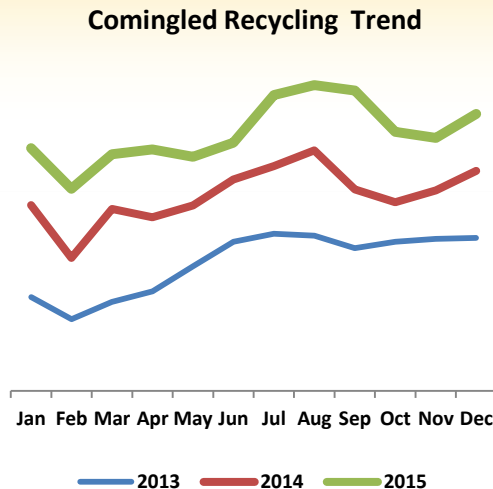
Tin and aluminum cans
Latas de estano y aluminio

Large lids – 3 inches or more
Tapas grandes – de más de tres pulgadas

Glass bottles and jars
Botellas y frascos de vidrio

NO

NO cardboard (Place in cardboard recycling bin)
NO cerámica, cristalería, Rocas / bombillas, espejos y ventanas
NO food / food contaminated paper
NO comida / papel contaminado con comida
NO garbage / liquids
NO líquidos peligrosos / botellas o envases de productos
NO latex products (but tires)
NO bolsas de papel formadas con aluminio
NO paper towels / paper napkins
NO toallas de papel / servilletas de papel
NO plastic bags / plastic wraps
NO bolsas de plástico / cubiertas de plástico
NO small caps and lids
NO tapas y tapones pequeños
NO styrofoam (polystyrene)
NO poliestireno



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Vashon yard & food waste pilot realizes high customer participation in early months

- Zero Waste Vashon – Community non-profit
- Pilot organics – Spring 2015 - 2016
 - Reduced rate (\$75/ton disposal rate)
 - Track material incoming tonnage
 - Evaluate tons which will help inform next steps



A total of 134.78 tons of yard and food waste was received in the four months of the pilot. been observed in the material collected.

A total of 539 customer visits were recorded in the four months

Resource Recovery continues to push recovered tons higher

Pilot began at the Shoreline Recycling and Transfer Station in April 2014.

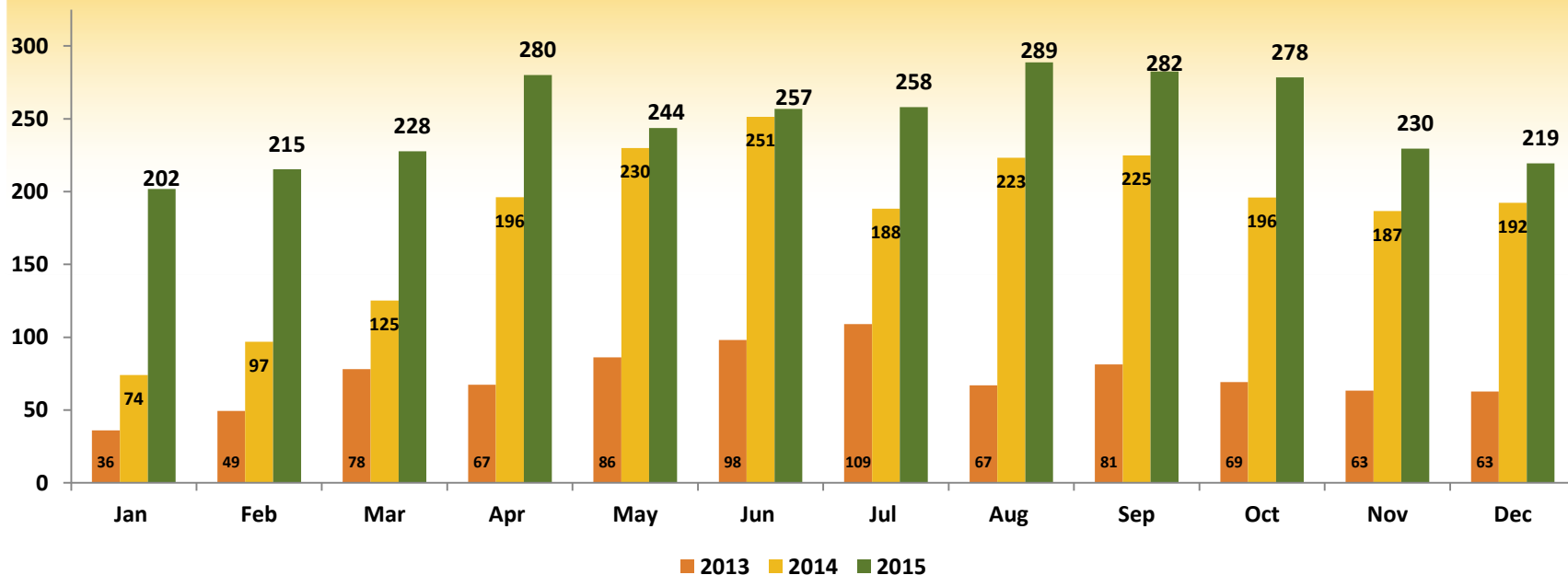
- Target clean wood, scrap metal, and cardboard

The pilot has a two-pronged approach.

- Directs self-haulers to recycling bins where recyclable materials can be placed.
- Sort incoming mixed waste on the tipping and mechanically remove the cardboard, wood and metal



Cardboard, Metal & Wood Tons Diverted Shoreline (Pilot Launched April 2014)



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Bow Lake resource recovery “Sort It Out” campaign out-performs expectations

What is in your garbage?
¿Que hay en su basura?

Mixed loads contain recyclable materials.
¡Cargas mixtas contienen materiales reciclables!

Sort your waste to make a big difference.
Separe su basura correctamente para hacer una gran diferencia.

SORT IT OUT
SEPARAR SU RECICLAJE

Metal
Metal → 

Cardboard
Cartón → 

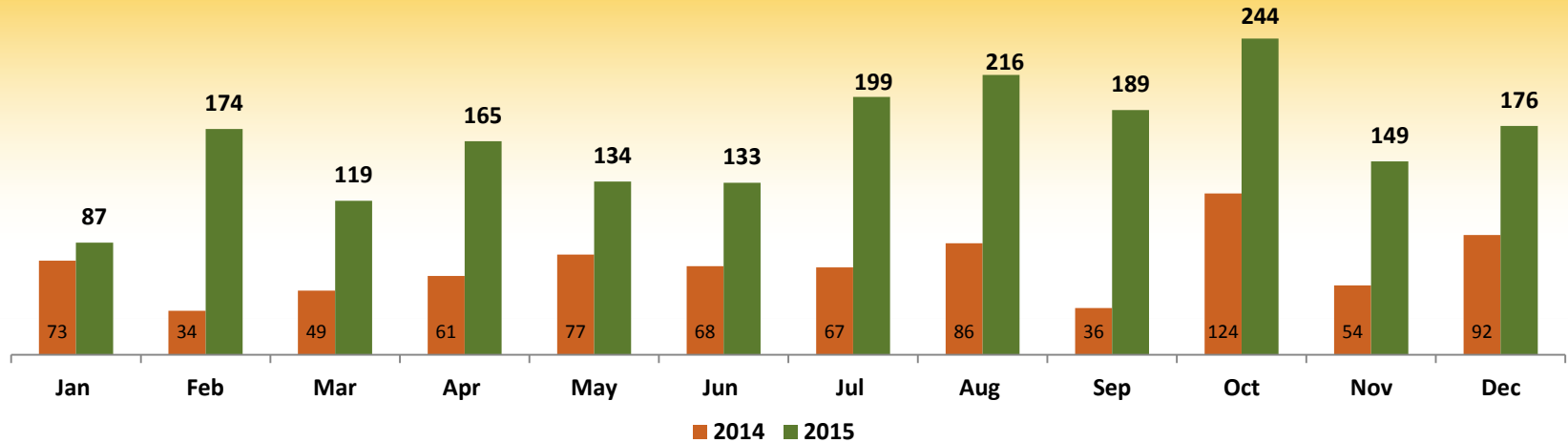
Clean Wood
Madera Limpia → 

THANK YOU
for helping us
SORT IT OUT

GRACIAS
por ayudarnos
SEPARAR SU
RECICLAJE



Bow Lake "Sort It Out" Combined Cardboard, Metal, Wood Tons Diverted



The placement of additional recycling bins and signage in the self-haul area of the Bow Lake transfer station in January 2015 resulted in the combined total of 1,160 tons of metal, cardboard, and clean wood as compared to the prior year.

Mercury lighting recycling at King County transfer stations contributes to Washington State LightRecycle program success



- Collection of mercury lighting including fluorescent tubes and compact fluorescent bulbs under the Washington State sponsored program LightRecycle began at Bow Lake, Shoreline, Vashon, and Enumclaw the first of this year.
- A total of 15,780 pounds of spent mercury lighting was collected.



Styrofoam & Plastic Film collection to resume soon

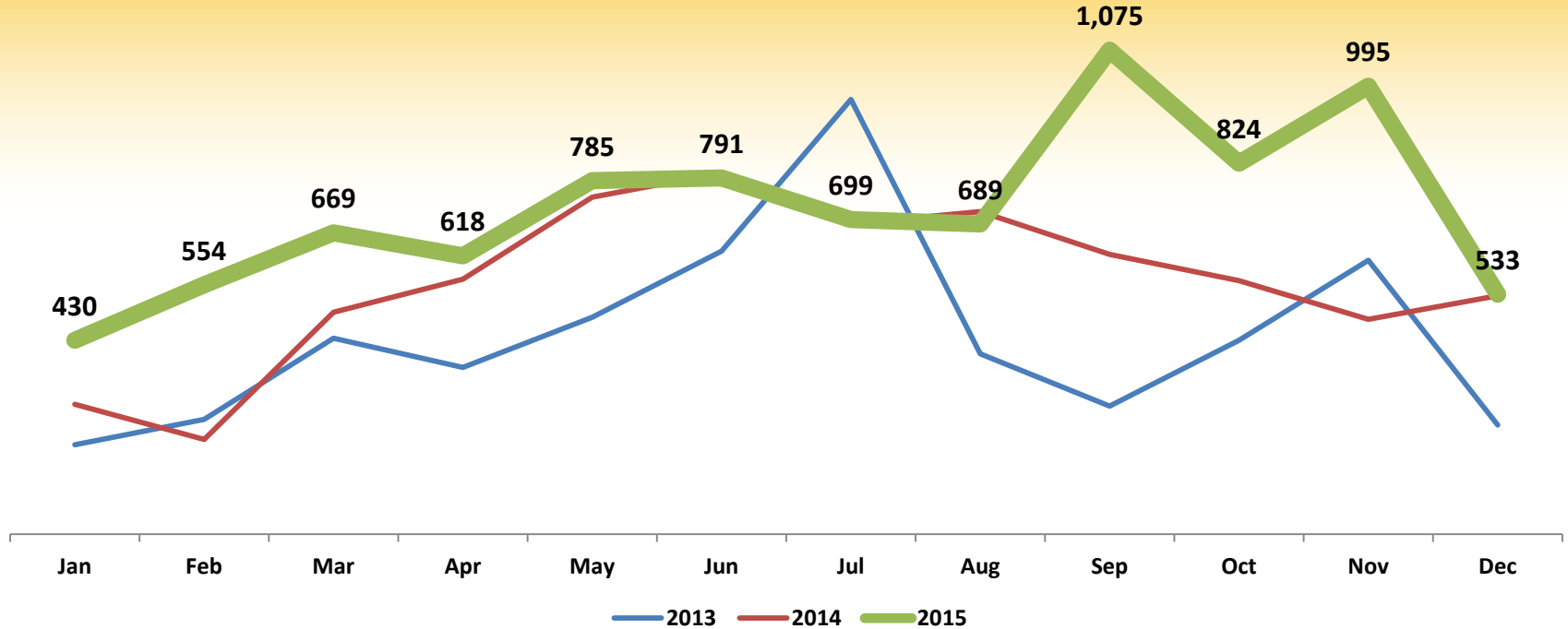
- Pilot halted due to transportation challenges
- New contract for hauling and processing in place in next couple of weeks
- Initial results look promising as there is a demonstrated need
- Program costs to be evaluated after pilot



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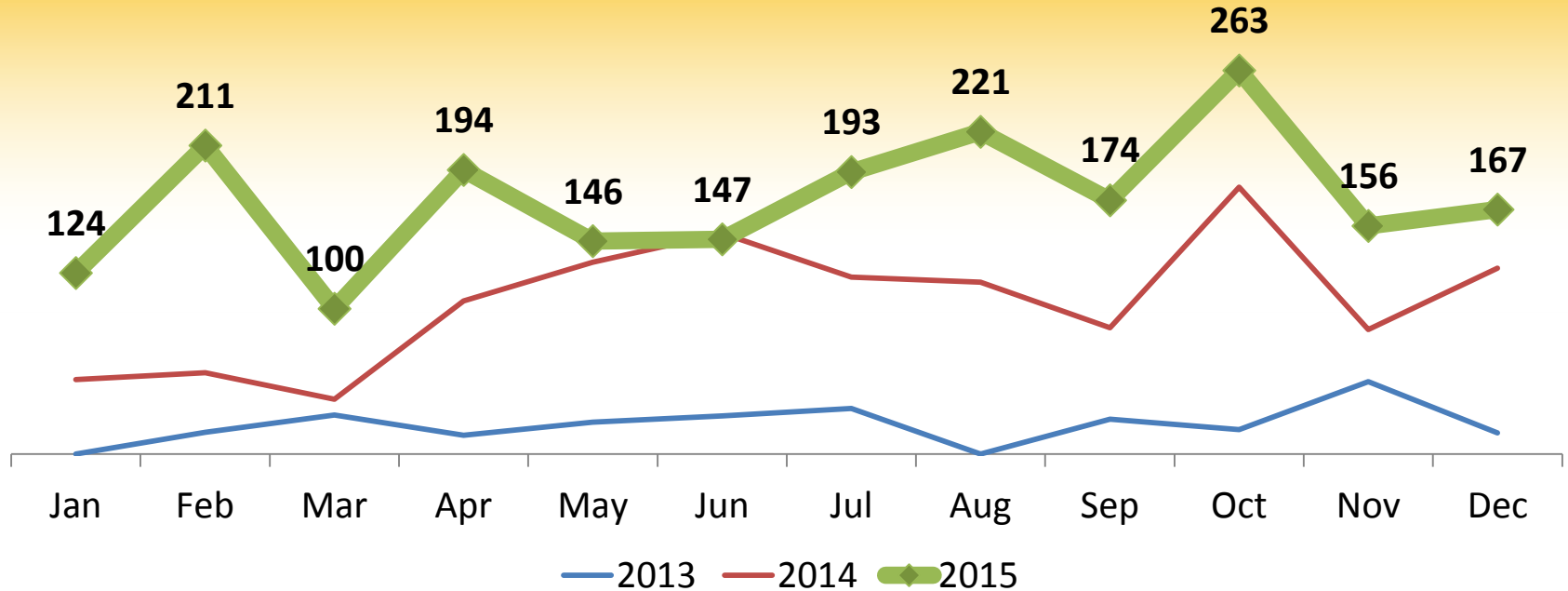
Yard Waste tonnage higher by 1,957 tons



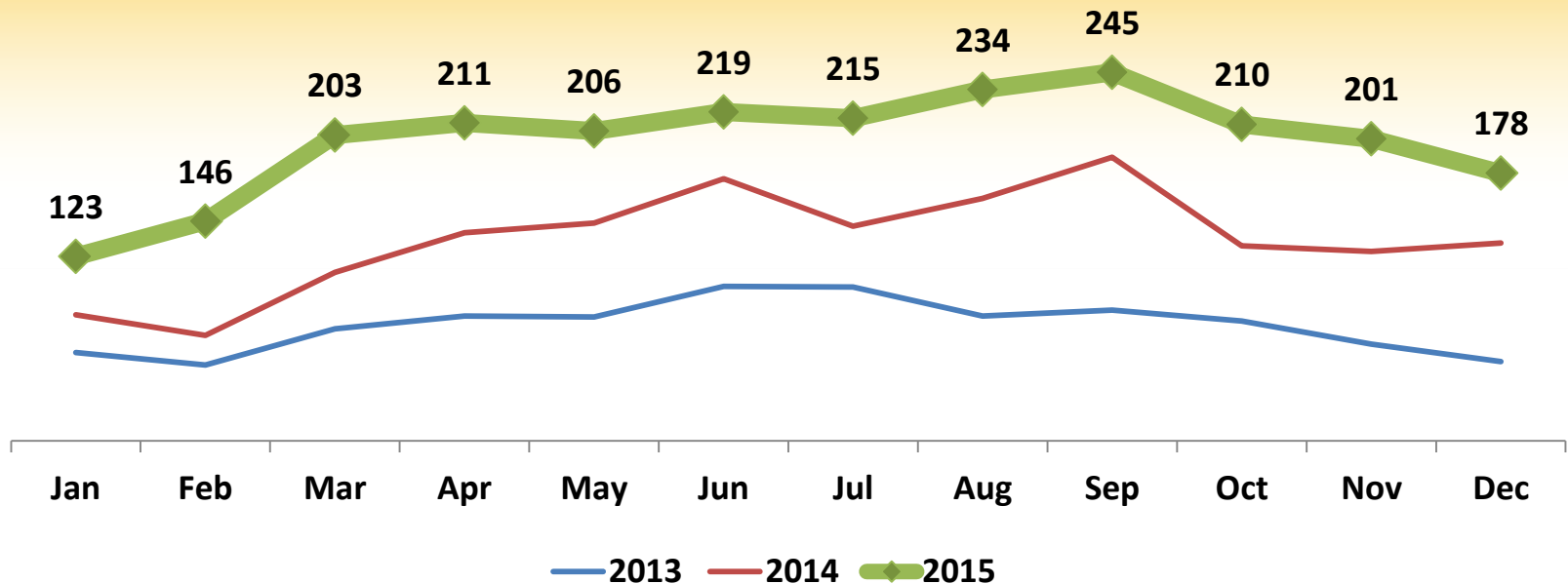
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Wood Waste recycling higher by 844 tons



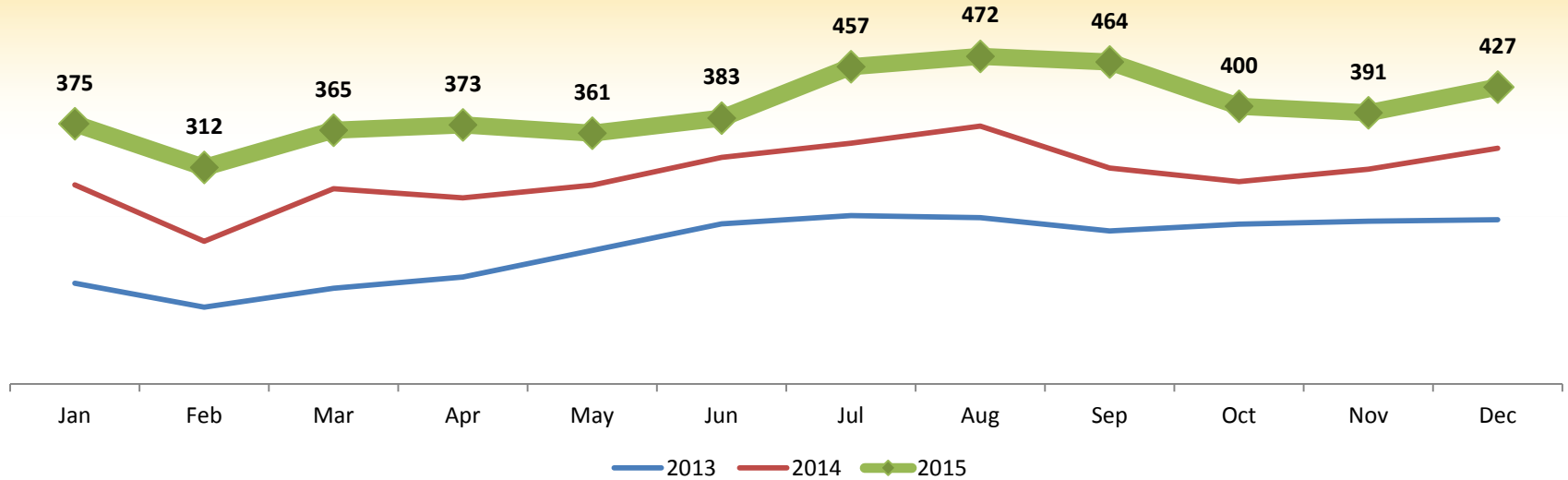
Scrap Metal recycling improved by 788 tons



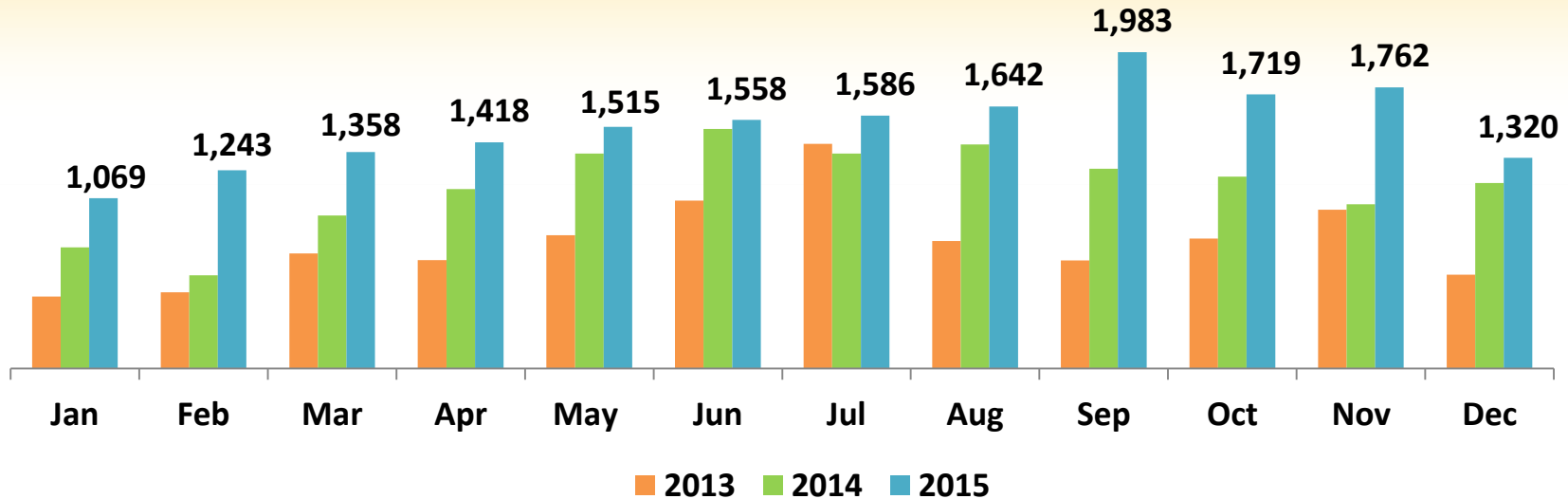
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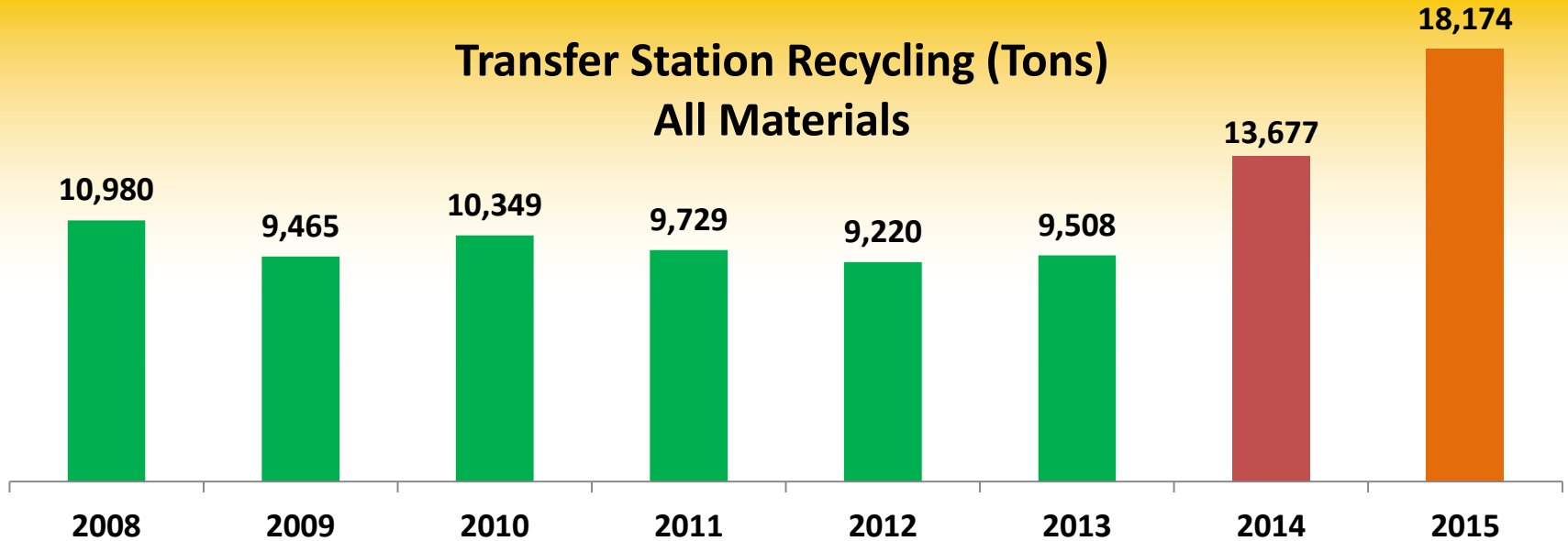
Comingled recycling including cardboard increased by 1,156 tons



Overall tons recycled increases by 33% nearly doubling in two years



Transfer Station Recycling (Tons) All Materials



A total of 18,174 tons of materials were recycled in 2015. Overall recycling tonnages increased year over year by 4,496 tons or 33%

More to come

- Staffing of Shoreline resource recovery efforts with permanent staff has begun
- Expand resource recovery at Bow Lake & Enumclaw with additional staff March & April
- Waste characterization of Vashon organics
- Look to expand Styrofoam and plastic film pilot to Bow Lake
- Target additional material for diversion including mattresses & scrap tires
- New Factoria Recycling & Transfer Station

Questions?

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Serving
Community

Protecting
Environment

Operating
Excellence

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